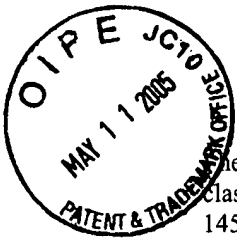


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PATENT

CERTIFICATE OF MAILING PURSUANT TO 37 CFR § 1.8

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May 9, 2005
Date

Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

REBAR et al.

Serial No.: 10/055,711

Filing Date: January 22, 2002

Title: MODIFIED ZINC FINGER BINDING
PROTEINS

Examiner:

Group Art Unit: 1645

Confirmation No.: 6236

Customer No.: 20855

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08A for the above-identified patent application.

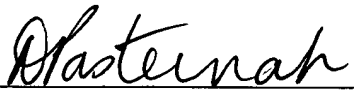
- ☐ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☒ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
 - ☒ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
 - ☐ a statement as specified in 37 C.F.R. §1.97(e).
- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. § 1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☒ Check No. 2442 in the amount of \$180.00 for the total fee is attached.
- ☒ A return receipt postcard is also enclosed.

☐ Please charge \$_____ to Deposit Account No. 18-1648 for the total fee.
This paper is being submitted in duplicate.

The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 18-1648.

Respectfully submitted,

Date: May 9, 2005

By: 
Dahna S. Pasternak
Registration No. 41,411

ROBINS & PASTERNAK LLP
1731 Embarcadero Road, Suite 230
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Facsimile: 650-493-3440



USSN: 10/055,711
Dkt. No.: 8325-0025
S25-US1

PATENT

CERTIFICATE OF MAILING PURSUANT TO 37 CFR § 1.8

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Examiner:

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Confirmation No.: 6236

Customer No.: 20855

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(c)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,
Applicant(s) hereby submits the following information in conformance with 37 C.F.R.
§§1.97 and 1.98.

- ☒ Pursuant to 37 C.F.R. §1.98, a copy of each document cited in the attached Form PTO/SB/08 is enclosed.
- ☐ No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. ____ to which the above-identified application claims priority under 35 U.S.C. §120.
- ☐ Publication(s) _____ listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to ____ application serial no. _____ and mailed on _____.

- ☐ Enclosed is a copy of a non-English publication(s) _____. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) _____. English language publication _____ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) _____ for which an English translation is not available.
- ☐ Enclosed is an English translation of non-English publication(s) _____ cited in the attached Form PTO/SB/08A.
- ☐ Enclosed is a copy of pending patent Application Serial No. _____.

This Information Disclosure Statement is filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing of:

- ☒ a final action under 37 C.F.R. § 1.113;
- ☐ a notice of allowance under 37 C.F.R. § 1.113; or
- ☐ an action that otherwise closes prosecution in this application.

In accordance with 37 C.F.R. § 1.97(c) also enclosed is:

- ☒ Fee under 37 C.F.R. § 1.17(p) in the amount of \$180.00; or
- ☐ Statement as specified in 37 C.F.R. § 1.97(e):
 - ☐ Each item of information contained in the Information Disclosure Statement cited herein was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of the Information Disclosure Statement; or
- ☐ No item of information contained in the Information Disclosure Statement submitted herewith was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, having made a reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the Information Disclosure Statement.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Respectfully submitted,

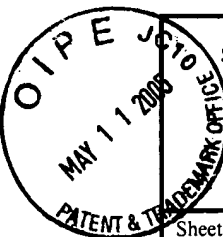
Date: May 9, 2005

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PTO/SB/08A (08-00)



Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					
(use as many sheets as necessary)					
Sheet	1	of	15	Application Number	10/055,711
				Filing Date	January 22, 2002
				First Named Inventor	REBAR et al.
				Group Art Unit	1636
				Examiner Name	T. McKelvery
				Attorney Docket Number	8325-0025 (S25-US1)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	A1	4,990,607		Katagiri et al.	02-05-1991
	A2	5,096,814		Aivasidis et al.	03-17-1992
	A3	5,096,815		Ladner et al.	03-17-1992
	A4	5,198,346		Ladner et al.	03-30-1993
	A5	5,223,409		Ladner et al.	06-29-1993
	A6	5,243,041		Fernandez-Pol	09-07-1993
	A7	5,302,519		Blackwood et al.	04-12-1994
	A8	5,324,638		Tao et al.	06-28-1994
	A9	5,324,818		Nabel et al.	06-28-1994
	A10	5,324,819		Oppermann et al.	06-29-1994
	A11	5,340,739		Stevens et al.	08-23-1994
	A12	5,348,864		Barbacid et al.	09-20-1994
	A13	5,350,840		Call et al.	09-27-1994
	A14	5,356,802		Chandrasegaran	10-18-1994
	A15	5,376,530		De The et al.	12-27-1994
	A16	5,403,484		Ladner	04-04-1995
	A17	5,436,150		Chandrasegaran	07-25-1995
	A18	5,487,994		Chandrasegaran	01-30-1996
	A19	5,498,530		Schatz et al.	03-12-1996
	A20	5,578,483		Evans	11-26-1996
	A21	5,597,693		Evans et al.	01-28-1997
	A22	5,602,009		Evans et al.	02-11-1997
	A23	5,639,592		Abramson et al.	06-17-1997
	A24	5,674,738		Abramson et al.	10-07-1997
	A25	5,702,914		Evans et al.	12-30-1997
	A26	5,789,538		Rebar et al.	08-04-1998
	A27	5,792,640		Ma	08-11-1998
	A28	5,814,618		Bujard et al.	09-29-1998
	A29	5,830,721		Stemmer et al.	11-03-1998
	A30	5,869,618		Lippman et al.	02-09-1999
	A31	5,871,902		Weininger et al.	02-16-1999
	A32	5,871,907		Winter et al.	02-16-1999
	A33	5,939,538		Leavitt et al.	09-17-1999
	A34	5,972,615		An et al.	10-26-1999
	A35	6,001,885		Vega et al.	12-14-1999
	A36	6,004,941		Bujard et al.	12-21-1999

Examiner Signature		Date Considered	
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¹ Unique citation designation number.

² See attached Kinds of U.S. Patent Documents.

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				Application Number	10/055,711
				Filing Date	January 22, 2002
				First Named Inventor	REBAR et al.
				Group Art Unit	1636
				Examiner Name	T. McKelvery
				Attorney Docket Number	8325-0025 (S25-US1)
Sheet	3	of	15		

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T ⁸
		Office ⁵	Number ⁶	Kind Code ⁷ (if known)			
	B1	WO	92/02536		The Regents of the University of Colorado	02-20-1992	
	B2	WO	95/11922		Affymax Technologies N.V.	05-04-1995	
	B3	WO	95/19431		The Scripps Research Institute	07-20-1995	
	B4	WO	96/06110		Ariad Pharmaceuticals, Inc.	02-29-1996	
	B5	WO	96/06166		Medical Research Council	02-29-1996	
	B6	WO	96/11267		Deutsches Krebsforschungszentrum Stiftung Der Offentlichen Rechts	04-18-1996	
	B7	WO	96/20951		Massachusetts Institute of Technology	07-11-1996	
	B8	WO	96/32475		University of Washington	10-17-1996	
	B9	WO	97/27212		Rigel Pharmaceuticals, Inc.	07-31-1997	
	B10	WO	97/27213		The Board of Trustees of the Leland Stanford Junior University	07-31-1997	
	B11	WO	98/54311		The Scripps Research Institute	12-03-1998	
	B12	WO	99/27092		Prolifix Limited	06-03-1999	
	B13	WO	99/36553		Ariad Gene Therapeutics, Inc.	07-22-1999	
	B14	WO	99/41371		Strata Biosciences Incorporated	08-19-1999	
	B15	WO	99/42474		Genome Dynamics, Inc.	08-26-1999	
	B16	WO	99/45132		Massachusetts Institute of Technology	09-10-1999	
	B17	WO	99/47656		Medical Research Council	09-23-1999	
	B18	WO	99/48909		Greisman, Harvey A.	09-30-1999	
	B19	WO	00/27878		Gendaq Limited	05-18-2000	
	B20	WO	00/41566		Sangamo Biosciences, Inc.	07-20-2000	
	B21	WO	01/04296	A1	McGill University	01-18-2001	
	B22	WO	02/066640	A2	Novartis AG	08-29-2002	
	B23	WO	03/016496	A2	The Scripps Research Institute	02-27-2003	
	B24	EP	0 875 567	A2	BASF AG	11-04-1998	

Examiner Signature		Date Considered	
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⁵ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁶ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁷ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁸ Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A (08-00)

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/055,711	
			Filing Date	January 22, 2002	
			First Named Inventor	REBAR et al.	
			Group Art Unit	1636	
Examiner Name	T. McKelvery				
Sheet	4	of	15	Attorney Docket Number	8325-0025 (S25-US1)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
	C1	Agarwal et al., "STIMULATION OF TRANSCRIPT ELONGATION REQUIRES BOTH THE ZINC FINGER AND RNA POLYMERASE II BINDING DOMAINS OF HUMAN TFIIS," Biochemistry 30(31): 7842-7851 (1991)		
	C2	Antao et al., "A THERMODYNAMIC STUDY OF UNUSUALLY STABLE RNA AND DNA HAIRPINS," Nuc. Acids. Res. 19(21): 5901-5905 (1991)		
	C3	Barbas, C.F. "RECENT ADVANCES IN PHAGE DISPLAY," Curr. Opin. Biotech. 4: 526-530 (1993)		
	C4	Barbas et al., "ASSEMBLY OF COMBINATORIAL ANTIBODY LIBRARIES ON PHAGE SURFACES: THE GENE III SITE," PNAS 88: 7978-7982 (1991)		
	C5	Barbas et al., "SEMISYNTHETIC COMBINATORIAL ANTIBODY LIBRARIES: A CHEMICAL SOLUTION TO THE DIVERSITY PROBLEM," PNAS 89: 4457-4461 (1992)		
	C6	Beerli et al., "TOWARD CONTROLLING GENE EXPRESSION AT WILL: SPECIFIC REGULATION OF THE ERBB-2/HER-2 PROMOTER BY USING POLYDACTYL ZINC FINGER PROTEINS CONSTRUCTED FROM MODULAR BUILDING BLOCKS," PNAS 95: 14628-14633 (1998)		
	C7	Beerli et al., "POSITIVE AND NEGATIVE REGULATION OF ENDOGENOUS GENES BY DESIGNED TRANSCRIPTION FACTORS," PNAS 97: 1495-1500 (2000)		
	C8	Bellefroid et al., "CLUSTERED ORGANIZATION OF HOMOLOGOUS KRAB ZINC-FINGER GENES WITH ENHANCED EXPRESSION IN HUMAN T LYMPHOID CELLS," EMBO J. 12(4): 1363-1374 (1993)		
	C9	Berg, J.M., "DNA BINDING SPECIFICITY OF STEROID RECEPTORS," Cell 57: 1065-1068 (1989)		
	C10	Berg, J.M., "SP1 AND THE SUBFAMILY OF ZINC-FINGER PROTEINS WITH GUANINE-RICH BINDING SITES," PNAS 89: 11109-11110 (1992)		
	C11	Berg et al., "THE GALVANIZATION OF BIOLOGY: A GROWING APPRECIATION FOR THE ROLES OF ZINC," Science 271: 1081-1085 (1996)		
	C12	Berg, J.M., "LETTING YOUR FINGERS DO THE WALKING," Nature Biotechnology 15: 323 (1997)		

Examiner Signature		Date Considered	
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/055,711
				Filing Date	January 22, 2002
				First Named Inventor	REBAR et al.
				Group Art Unit	1636
				Examiner Name	T. McKelvery
Sheet	5	of	15	Attorney Docket Number	8325-0025 (S25-US1)

	C13	Bergqvist et al., "LOSS OF DNA-BINDING AND NEW TRANSCRIPTIONAL TRANS-ACTIVATION FUNCTION IN POLYOMAVIRUS LARGE T—ANTIGEN WITH MUTATION OF ZINC FINGER MOTIF," Nature Biotechnology 18(9): 2715-2720 (1990)	
	C14	Blaese et al., "VECTORS IN CANCER THERAPY: HOW WILL THEY DELIVER?" Cancer Gene Therapy 2(4): 291-297 (1995)	
	C15	Bonde et al., "ONTOGENY OF THE V-ERBA ONCOPROTEIN FROM THE THYROID HORMONE RECEPTOR: AN ALTERATION IN THE DNA BINDING DOMAIN PLAYS A ROLE CRUCIAL FOR VERBA FUNCTION," J. Virology 65(4): 2037-2046 (1991)	
	C16	Caponigro et al., "TRANSDOMINANT GENETIC ANALYSIS OF A GROWTH CONTROL PATHWAY," PNAS 95: 7508-7513 (1998)	
	C17	Celenza et al., "A YEAST GENE THAT IS ESSENTIAL FOR RELEASE FROM GLUCOSE REPRESSION ENCODES A PROTEIN KINASE," Science 233: 1175-1180 (1986)	
	C18	Cheng et al., "IDENTIFICATION OF POTENTIAL TARGET GENES FOR ADRLP THROUGH CHARACTERIZATION OF ESSENTIAL NUCLEOTIDES IN UAS1," Mol. Cellular Biol. 14(6): 3842-3852 (1994)	
	C19	Cheng et al., "A SINGLE AMINO ACID SUBSTITUTION IN ZINC FINGER 2 OF ADRLP CHANGES ITS BINDING SPECIFICITY AT TWO POSITIONS IN UAS1," J. Mol. Biol. 251: 1-8 (1995)	
	C20	Choo et al., "DESIGNING DNA-BINDING PROTEINS ON THE SURFACE OF FILAMENTOUS PHAGE," Curr. Opin. Biotechnology 6: 431-436 (1995)	
	C21	Choo et al., "PHYSICAL BASIS OF PROTEIN-DNA RECOGNITION CODE," Curr. Opin. Struct. Biol. 7(1): 117-125 (1997)	
	C22	Choo et al., "PROMOTER-SPECIFIC ACTIVATION OF GENE EXPRESSION DIRECTED BY BACTERIOPHAGE-SELECTED ZINC FINGERS," J. Mol. Biol. 273: 525-532 (1997)	
	C23	Choo et al., "IN VIVO REPRESSION BY A SITE-SPECIFIC DNA-BINDING PROTEIN DESIGNED AGAINST AN ONOGENIC SEQUENCE," Nature 372: 642-645 (1994)	
	C24	Choo et al., "ALL WRAPPED UP," Nature Struct. Biol. 5(4): 253-255 (1998)	
	C25	Choo, Y., "RECOGNITION OF DNA METHYLATION BY ZINC FINGERS," Nature Struct. Biol. 5(4): 264-265 (1998)	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>			Complete if Known		
			Application Number	10/055,711	
			Filing Date	January 22, 2002	
			First Named Inventor	REBAR et al.	
			Group Art Unit	1636	
			Examiner Name	T. McKelvey	
Sheet	6	of	15	Attorney Docket Number	8325-0025 (S25-US1)

	C26	Choo, Y., "END EFFECTS IN DNA RECOGNITION CODE," Nuc. Acids. Res. 26(2): 554-557 (1998)	
	C27	Choo et al., "A ROLE IN DNA-BINDING FOR THE LINKER SEQUENCES OF THE FIRST THREE ZINC FINGERS OF TFIID" Nuc. Acids Res. 21(15): 3341-3346 (1993)	
	C28	Choo et al., "TOWARD A CODE FOR THE INTERACTIONS OF ZINC FINGERS WITH DNA: SELECTION OF RANDOMIZED FINGERS DISPLAYED ON PHAGE," PNAS 91: 11163-11167 (1994)	
	C29	Choo et al., "SELECTION OF DNA BINDING SITES FOR ZINC FINGERS USING RANDOMIZED DNAs REVEALS CODED INTERACTIONS," PNAS 91: 11168-11172 (1994)	
	C30	Clarke et al., "ZINC FINGERS IN CAENORHABDITIS ELEGANS: FINDING FAMILIES AND PROBING PATHWAYS," Science 282: 2018-2022 (1998)	
	C31	Corbi et al., "SYNTHESIS OF A NEW ZINC FINGER PEPTIDE: COMPARISON OF ITS "CODE" DEDUCED AND "CASTING" DERIVED BINDING SITES," FEBS Letters 417: 71-74 (1997)	
	C32	Crozatier et al., "SINGLE AMINO ACID EXCHANGES IN SEPARATE DOMAINS OF THE DROSOPHILA SERENDIPITY ZINC FINGER PROTEIN CAUSE EMBRYONIC AND SEX BIASED LETHALITY," Genetics 131: 905-916 (1992)	
	C33	Debs et al., "REGULATION OF GENE EXPRESSION IN VIVO BY LIPOSOME-MEDIATED DELIVERY OF A PURIFIED TRANSCRIPTION FACTOR," J. Biological Chemistry 265(18): 10189-10192 (1990)	
	C34	Desjardins et al., "REPEATED CT ELEMENTS BOUND BY ZINC FINGER PROTEINS CONTROL THE ABSOLUTE AND RELATIVE ACTIVITIES OF THE TWO PRINCIPAL HUMAN C-MYC PROMOTERS," Mol. Cell. Biol. 13(9): 5710-5724 (1993)	
	C35	Desjarlais et al., "REDESIGNING THE DNA-BINDING SPECIFICITY OF A ZINC FINGER PROTEIN: A DATA BASE-GUIDED APPROACH," Proteins: Structure, Function, and Genetics 12(2): 101-104 (1992)	
	C36	Desjarlais et al., "REDESIGNING THE DNA-BINDING SPECIFICITY OF A ZINC FINGER PROTEIN: A DATA BASE-GUIDED APPROACH," Proteins: Structure, Function, and Genetics 13(2): 272 (1992)	
	C37	Desjarlais et al., "TOWARD RULES RELATING ZINC FINGER PROTEIN SEQUENCES AND DNA BINDING SITE PREFERENCES," Proc Natl Acad Sci US A 89:7345-7349 (1992)	
	C38	Desjarlais et al., "USE OF A ZINC-FINGER CONSENSUS SEQUENCES FRAMEWORK AND SPECIFICITY RULES TO DESIGN SPECIFIC DNA BINDING, PROTEINS" PNAS 90: 2256-2260 (1993)	
	C39	Desjarlais et al., "LENGTH-ENCODED MULTIPLEX BINDING SITE DETERMINATION: APPLICATION TO ZINC FINGER PROTEINS," PNAS 91: 11099-11103 (1994)	
	C40	Dibello et al., "THE DROSOPHILA BROAD-COMPLEX ENCODES A FAMILY OF RELATED PROTEINS CONTAINING ZINC FINGERS," Genetics 129: 385-397 (1991)	

Examiner Signature		Date Considered	
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				Group Art Unit	1636
				Examiner Name	T. McKelvey
Sheet	7	of	15	Attorney Docket Number	8325-0025 (S25-US1)

	C41	Donze et al., "ACTIVATION OF DELTA-GLOBIN GENE EXPRESSION BY ERYTHROID KRUPPLE-LIKE FACTOR: A POTENTIAL APPROACH FOR GENE THERAPY OF SICKLE CELL DISEASE," Blood 88: 4051-4057 (1996)	
	C42	Elrod-Erickson et al., "ZIF268 PROTEIN-DNA COMPLEX REFINED AT 1.6: A MODEL SYSTEM FOR UNDERSTANDING ZINC FINGER-DNA INTERACTIONS," Structure 4(10): 1171-1180 (1996)	
	C43	Elrod-Erickson et al., "HIGH-RESOLUTION STRUCTURES OF VARIANT ZIF268-DNA COMPLEXES: IMPLICATIONS FOR UNDERSTANDING ZINC FINGER-DNA RECOGNITION," Structure 6(4): 451-464 (1998)	
	C44	Fairall et al., "THE CRYSTAL STRUCTURE OF A TWO ZINC-FINGER PEPTIDE REVEALS AN EXTENSION TO THE RULES FOR ZINC-FINGER/ DNA RECOGNITION," Nature 366: 483-487 (1993)	
	C45	Frankel et al., "FINGERING TOO MANY PROTEINS," Cell 53: 675 (1988)	
	C46	Friesen et al., "PHAGE DISPLAY OF RNA BINDING ZINC FINGERS FROM TRANSCRIPTION FACTOR IIA," J. Biological Chem. 272(17): 10994-10997 (1997)	
	C47	Friesen et al., "SPECIFIC RNA BINDING PROTEINS CONSTRUCTED FROM ZINC FINGERS," Nature Structural Biology 5(7): 543-546 (1998)	
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Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.